11

REMARKS BY MEDICAL OFFICER,

James Burn Russell

TO ACCOMPANY MORTALITY TABLES OF
THE CITY OF GLASGOW,

FOR THE QUARTER ENDING 30th SEPT., 1878.

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REMARKS BY MEDICAL OFFICER,

TO ACCOMPANY MORTALITY TABLES OF THE CITY OF GLASGOW,

For the Quarter ending 30th September, 1878.

Two Tables concerning the Mortality of the City of Glasgow are herewith presented to the Committee of Health, respectively entitled :—

" *Return of Deaths from all causes and certain specified Diseases at all ages and under five years, with rates per* 1000 *of population at these ages, together with the number medically certified or otherwise in the Statistical Subdivisions of the City of Glasgow, for the Quarter ending* 30*th September*, 1878."

"*Special Return of Deaths under five years in the Statistical Subdivisions of the City of Glasgow, for the Quarter ending* 30*th September*, 1878."

The following remarks are merely intended as an example of the method of using such Tables, and a guide to the principal facts which they contain. The danger of endeavouring to strain results from limited statistics must always be kept in mind.*

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* In deference to the often expressed wish of my friendly critics in *The Lancet*, the *Tables* are now, and will continue to be, printed and issued attached to the *Remarks*, with the sanction of the Committee of Health.

JULY, 1878, was unusually warm and dry. The mean of the highest daily temperatures recorded was 68°·4 F.; the mean of the lowest 54°·3 F. Rain fell on six days only. The wind blew for nineteen days from the W. and S.W. The following Table shows the mean temperature, rain-fall, death-rate, &c., for this month in ten years:—

YEAR.	Mean Temp.	Rain-fall.	DEATH-RATE.		Percentage of Deaths under 5.
			All Ages.	Under 5.	
		Inches.			
1868,…………	61°·4	0·59	31·5	112·5	56
1869,…………	60·5	2·66	31·9	116·0	49
1870,…………	60·1	2·52	21·1	83·1	45
1871,…………	57·9	4·51	33·0	130·9	54
1872,…………	60·1	6·52	26·6	91·1	46
1873,…………	58·6	5·33	26·6	109·4	50
1874,…………	60·0	4·03	30·1	106·8	49
1875,…………	57·7	1·89	26·1	91·1	48
1876,…………	58·0	2·87	21·8	78·4	49
1877,…………	56·7	2·88	21·9	68·0	43
Average of 10 years,	59·1	3·38	27·0	98·7	48
1878,…………	61·3	0·58	26·2	103·0	55

Compared with July for ten years, the mean temperature of July, 1878, was higher than in any but one of the ten, and higher than the average by 2°·2. The rain-fall was less than any in July but one for the ten years, and less than the average by 2·8 inches. The general death-rate was lower than the average by 0·8 per 1000 living. The death-rate of children below five years was higher than the average by 4·3 per 1000 living, and the proportion to the total deaths was greater by 7 per cent.

AUGUST, 1878, was warmer and drier than usual. The mean of the highest daily temperature recorded was 65°·8 F.; the mean of the lowest 54° F. Rain fell on eighteen days. The wind blew for sixteen days from the N.E., and E.; and for nine days from the W. and S.W. The following Table shows the mean temperature, rain-fall, death-rate, &c., for this month in ten years:—

YEAR.	Mean Temp.	Rain-fall.	DEATH-RATE.		Percentage of Deaths under 5.
			All Ages.	Under 5.	
	°	Inches.			
1868,…………	59·7	4·60	30·8	121·0	54
1869,…………	56·6	1·03	26·5	89·2	46
1870,…………	59·2	1·76	30·3	117·5	52
1871,…………	59·0	3·66	31·8	117·0	50
1872,…………	57·0	5·19	27·1	94·3	47
1873,…………	56·5	4·56	25·3	94·1	51
1874,…………	56·1	4·74	28·0	103·5	51
1875,…………	58·4	2·98	26·4	99·4	52
1876, ………	58·2	5·32	23·2	77·1	46
1877,…………	56·7	6·61	21·5	73·7	48
Average of 10 years,	57·7	4·04	27·0	98·6	49
1878,…………	59·9	2·67	22·0	86·6	55

The mean temperature of August, 1878, was higher than in any August for ten years, and higher than the average by 2°·2. The rain-fall was 1·37 inches lower than the average. The general death-rate was 5 lower than the average, and lower than it has ever been excepting in August, 1877. The death-rate of children under five years was lower than the average by 12 per 1000; but the proportion of deaths under five to the total deaths was higher than the average by 6 per cent.

SEPTEMBER, 1878, was warm but wet. The mean of the highest daily temperatures recorded was 61°·1 F.; the mean of the lowest 49°·9 F. Rain fell on twenty-one days. The wind blew twenty-two days from the S.W. and W. The following Table shows the mean temperature, rain-fall, death-rate, &c., for this month in ten years:—

YEAR.	Mean Temp.	Rain-fall.	DEATH-RATE.		Percentage of Deaths under 5.
			All Ages.	Under 5.	
	°	Inches.			
1868,…………	53·8	3·10	27·0	103·8	53
1869,…………	54·8	6·25	24·0	76·7	43
1870,…………	53·6	3·71	22·3	78·6	48
1871,…………	52·8	1·60	26·0	98·2	52
1872,…………	51·7	9·80	24·1	87·5	49
1873,…………	51·4	5·16	23·5	80·7	47
1874,…………	53·5	4·41	25·7	91·4	49
1875,…………	54·6	5·45	22·3	82·4	51
1876,…………	52·2	2·39	20·3	68·3	46
1877,…………	52·5	1·41	20·2	66·6	46
Average of 10 years,	53·0	4·32	23·5	83·4	48
1878,…………	55·5	5·22	19·7	70·3	50

Compared with September for ten years, the mean temperature of September, 1878, was the highest recorded, and higher than the average by 2°·5. The rain-fall was higher than the average, by nearly 1 inch. The general death-rate was the lowest on record, and lower than the average by 3·8 deaths per 1000 living. The death-rate of children below five years was also lower by 13 deaths per 1000, but the proportion of deaths under five years to the total deaths was higher than the average by 2 per cent.

The average death-rate of Glasgow in the Third Quarter of the year for ten years is 26. For 1878 it is 23. The death-rate below five years was 93½ on the ten years' average, and 86½ in this Quarter. The mean temperature of the Quarter was 2°·3 higher than the average of ten years (58°·9 F. and 56°·6 F.), and the rain-fall was 3·27 inches less (8·47 and 11·74 inches). Therefore the third Quarter of 1878 has been marked by higher temperature, less rain-fall, lower general death-rate, and lower death-rate in children than the average of ten years. For all Scotland the average death-rate of the Quarter for ten years is 19·8, and for 1878 it is 19·3, so that we had more than our share in the present improvement.

Compared with the eight "Principal Towns" of Scotland (the mortality of whose entire population was 20·7), the mortality of Glasgow for the Quarter is exceeded by that of Paisley, which was 32, again the highest death-rate of any town in the United Kingdom. The mortality of Glasgow is less than that of the "Large Towns,"* the death-rate of whose entire population was 26.

Typhus—isolated cases in all the towns, except Leith. *Small-pox*—only one death (an unvaccinated infant) in Glasgow. *Scarlet Fever*—deaths in all towns except Greenock and Perth. Epidemic in Paisley; contributing 2½ per 1000 to the death-rate. *Measles*—no deaths in Greenock or Leith. *Hooping-cough*—no deaths in Perth. Still epidemic, though somewhat less fatal, in Glasgow.

Compared with "20 large English Towns" (the mortality of whose entire population was 24), the mortality of Glasgow for the Quarter was less than that of eleven (including Liverpool 30, Manchester 26½, Birmingham 26.) The death-rate of London was 22.

Fevers—not epidemic in any town. *Small-pox*—epidemic, although declining in London; but still 133 deaths there against 5 in all the other towns. *Scarlet Fever*—still epidemic in Birmingham, Liverpool, and Sheffield. *Measles*—nowhere epidemic. *Hooping-cough*—the most fatal infectious disease of this as of the last Quarter. In London caused nearly 5 per cent. of the total deaths.

Compared with 22 European cities (the mortality of whose entire population was 28), the mortality of Glasgow for the Quarter was less than that of nineteen (including Hamburgh 27, Berlin 33½, and Munich 35). The death-rate of Paris was 23·2.

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* The Registrar-General includes in the "Large Towns" the Suburbs of Glasgow, with all places of from 10,000 to 25,000 inhabitants in 1871.

Fevers—the "fever" epidemic established in St. Petersburg by the Turkish prisoners continues to decline, but it still contributes above 9 per cent. of the total deaths. In Paris and Berlin Enteric Fever more fatal. *Small-pox*—epidemic and more fatal in St. Petersburg, but stationary in Vienna and Buda-Pesth. *Scarlet Fever*—epidemic in St. Petersburg. *Measles*—present, but not epidemic in any of these cities. *Hooping-cough*—only sporadic in three cities. *Diphtheria*—fatal in Paris, Berlin, and Vienna.

Compared with five American cities, the mortality of Glasgow for the Quarter was less than that of two—New York having a death-rate of 28, and Brooklyn of 25.

Small-pox—no deaths in these cities. *Measles* and *Scarlet Fever*—only sporadic cases. *Diphtheria*—much more fatal than in English towns. *Diarrhœa*—excessively fatal, especially in New York.

The death-rate of Montreal for the Quarter was 40, and of this nearly 15 per cent. was caused by Small-pox.

So far as the status of infectious diseases in Scotland generally is exhibited by the "Registrar's notes," we find a general absence of epidemic outbreaks. *Enteric Fever*—only a few isolated cases in rural Registration Districts. *Diphtheria* and *Scarlet Fever*—local epidemics recorded in small towns and villages all over the country; the former more frequently in purely rural districts. The death-rate in New Monkland Registration District (which includes Airdrie) from Scarlet Fever alone was 10; and in Hawick, from Hooping-cough alone, 14.

During the Third Quarter of 1878 the general death-rate was 23 per 1000 living; the birth-rate 36 per 1000 living.

The death-rate per 1000 living under one year was 192, one and under five years 52 (under five years 87), five years and upwards 12.

The deaths under five years amounted to 53 per cent. of the total deaths. The deaths under one year amounted to 55 per cent. of the deaths under five years, 29 per cent. of the total mortality, and 18½ per cent. of the total births.

Of the total deaths 87 per cent. were certified, and 38 per cent. were in Friendly Societies.

Of the births 7½ per cent. were Illegitimate.

Of the deaths under one year, in only 76 per cent. was the cause of death certified; of the deaths one and under five years, in 85 per cent.; of the deaths above five years, in 94 per cent. There was, therefore, no proof of medical attendance having been obtained for 24 per cent. of those who died under one year; for 15 per cent. of those who died one and under five years; and for 6 per cent. of those who died above five years.

Of the deaths under one year 20 per cent. were in Friendly Societies; of the deaths one and under five years 46 per cent.; of the deaths above five years 45 per cent.

Of the children who died under one year 17½ per cent., and of those who died one and under five years 7 per cent., were Illegitimate.

Of the Legitimate children who died under one year 78½ per cent. were certified; while of the Illegitimate children 65 per cent. were certified. There was therefore no proof of medical attendance having been obtained for 21½ per cent. of the Legitimate, and for 35 per cent. of the Illegitimate, children who died within their first year.

Of the Legitimate children who died one and under five years, 87 per cent. were certified; while of the Illegitimate 54 per cent. were certified. There was therefore no proof of medical attendance having been obtained for 13 per cent. of the Legitimate, and 46 per cent. of the Illegitimate, children who died between their first and fifth years.

The following are the causes of death at all ages in order from the highest downwards, viz.:—

Consumption and Acute Diseases of the Lungs, ...	812
Nervous Diseases of Children, Atrophy and Debility of Children, and Premature Births, all below five years, ...	451
Scarlet Fever, Measles, Hooping-cough, Croup, and Diphtheria, all of which affect children chiefly, ...	403
Fevers, ...	305
Diarrhœal Diseases, ...	58
Small-pox, ...	1
Unclassified Causes, ...	1062
Total, ...	3092

As compared with the corresponding Quarter of last year, there is an increase of 184 deaths, which arises from the greater fatality of Diarrhœal Diseases and the Infectious Diseases of Children, amounting in the former case to all but double, and in the latter to about fifty per cent. This is partly counterbalanced by a considerable diminution in the fatality of Pulmonary Diseases. Both features arise from the same meteorological character of the Quarter, viz., the higher mean temperature. For the same reason this Quarter has been more fatal to child life.

In the two following Tables those deaths are arranged so as to show the proportion contributed by each class of disease to the total deaths in the earlier and adult years of life in the entire City:—

DISEASES.	Deaths under 1 Year.	Deaths at 1 and under 5 Years.	Deaths at 5 Years and above.	Rate per 1000, under 1 Year (per annum).	Rate per 1000, 1 and under 5 Years (per annum).	Rate per 1000, 5 Years and above (per annum).
General Infectious Diseases,	2	7	50	0·42	0·48	0·42
Special do. of Children,......	105	259	39	22·17	18·11	0·33
Diarrhœal Diseases,...........	207	66	32	43·70	4·61	0·27
Consumption,................	141	168	332	29·77	11·75	2·82
Acute Diseases of Lungs,.			171			1·45
Nervous Diseases of Children	117	117	...	24·70	8·18	...
Atrophy and Debility of do.,	118	29	...	24·91	2·02	...
Premature Birth,.............	70	...	...	14·78	...	...
Other Causes,.................	148	96	818	31·25	6·71	6·96
All Causes,...............	908	742	1442	191·70	51·86	12·25

The next Table shows the percentage proportion contributed by each class of diseases to the total deaths at the earlier and adult periods of life:—

Diseases.	Percentage of Deaths under 1 Year.	Percentage of Deaths 1 and under 5 Years.	Percentage of Deaths 5 Years and above.
General Infectious Diseases,......	0·22	0·94	3·46
Special do. of Children,............	11·56	34·90	2·70
Diarrhœal Diseases,................	22·79	8·89	2·21
Consumption,......................	15·52	22·64	23·02
Acute Diseases of Lungs,.......			11·85
Nervous Diseases of Children,...	12·88	15·76	...
Atrophy and Debility of do.,....	12·99	3·90	...
Premature Birth,.....................	7·70	...	...
Other Causes,.........................	16·29	12·93	56·72
	99·95	99·96	99·96

Of the twenty-four Statistical Subdivisions into which the City is divided, those which show the five lowest death-rates are—Kelvinhaugh and Sandyford, 12; Blythswood, 14; Exchange, 16; Woodside, 16; Springburn and Maryhill, 19.

Those which show the five highest death-rates are—Bridgegate and Wynds, 38; Brownfield, 34½; Gorbals, 32½; Laurieston, 29½; Calton Proper, 28½.

The following Tables show, in such a way as to admit of easy comparison, the birth and death-rates at various ages, and other data calculated from the Statistics of the Quarter, for certain Groups of these Statistical Subdivisions so combined as to present general similarity of sanitary features.

The rates are per annum per 1000 living:—

GROUPS.	Persons to an Acre.	BIRTHS.		DEATH-RATES.				Percentage of Deaths under One to Births.
		Rate per 1000 of Population.	Percentage of Illegitimate.	All Ages.	Under One Year.	One and under Five Years.	Five Years and above.	
I., ...	69	23·11	5·59	14·41	135·64	25·10	9·54	16·21
II., ...	68	39·74	5·67	21·84	178·75	48·07	11·52	16·76
III., ...	226	36·85	9·76	25·62	230·76	62·56	12·24	22·77
IV., ...	308	39·50	12·82	30·29	244·32	84·06	16·04	20·40
Whole City,	91	36·02	7·48	22·66	191·72	51·90	12·28	18·47

For convenience of reference a short description of these Groups is appended to these Remarks. In all the Tables referring to Groups of Districts the deaths in *Institutions* are omitted. These are deaths of persons resident in said Institutions more than three months.

By running the eye down each of these columns in succession we cannot fail to be convinced that those Groups present extreme contrasts in their vital phenomena. Taking the two extremes—Group I. and Group IV.—the former has a death-rate of 14½, the latter of 30, the former has a birth-rate of 23, the latter of 39½; of the children born in the former 5½ per cent., of those born in the latter 13 per cent. were Illegitimate. The death-rate above five years of age was 9½ per 1000 in the former, and 16 per 1000 in the latter; but the contrast in respect of the lives of children is even more violent. While the death-rate within the first year was 136 per 1000 in the former Group, in the latter it was 244; while the death-rate between the first and fifth years in the former was 25 per 1000, in the latter it was 84. The number of children who died before reaching their first year amounted to 16 per cent. of the births in the former Group, and to 20½ per cent. of the births in the latter.

The following Table shows the percentage certified of the deaths at different ages, and of Illegitimate as contrasted with Legitimate children:—

GROUPS.	PERCENTAGE CERTIFIED.			PERCENTAGE CERTIFIED. Under One Year.		PERCENTAGE CERTIFIED. One and under Five Years.	
	Under One Year.	One and under Five Years.	Five Years and above.	Legitimate.	Illegitimate.	Legitimate.	Illegitimate.
I.,................	79·76	92·00	95·23	84·28	57·14	93·75	50·00
II.,................	82·22	88·59	95·77	83·29	76·38	90·25	55·55
III.,..............	68·57	83·43	93·12	72·09	52·63	85·89	53·84
IV.,...............	63·57	74·30	88·42	66·36	53·33	78·40	47·36
Whole City,	76·10	84·90	94·17	78·40	65·18	87·35	53·70

Again, taking the best and the worst Groups, we find that above five years of age the cause of death was duly certified by a legally qualified practitioner in 95 per cent. of the deaths in the former, and 88½ per cent. in the latter. But the dependent and unproductive lives of children received much less attention. Of the deaths within the first year of life in the first Group 80 per cent. were duly certified, but in the fourth only 63½ per cent. Of the deaths between the first and fifth years of life in the first Group 92 per cent., in the fourth 74 per cent. were certified.

The following Table shows the causes of death at various ages in the four Groups of Districts:—

Diseases.	Under 1 Year.				1 and under 5 Years.				5 Years and above.			
	I.	II.	III.	IV.	I.	II.	III.	IV.	I.	II.	III.	IV.
General Infectious Diseases,	...	2	...	...	1	5	...	1	7	29	7	7
Special do. of Children,	7	53	27	18	15	133	57	54	4	22	6	6
Diarrhœal Diseases,	20	112	43	31	2	38	15	11	1	17	5	6
Consumption,	5	80	30	24	8	82	45	31	42	170	54	57
Acute Diseases of Lungs,									19	74	37	29
Nervous Diseases of Children,	16	48	31	22	12	62	22	21	...	...	...	...
Atrophy and Debility of Children,	14	57	28	16	1	14	9	5	...	...	...	...
Premature Birth,	8	37	14	11	...	...	...	...	...	...	...	...
Other Causes,	14	78	37	18	11	43	21	21	116	375	153	137
Total,	84	467	210	140	50	377	169	144	189	687	262	242

The whole numbers in the preceding Table are in the following reduced to annual rates per 1000 of population:—

Diseases.	Under One Year.				One and under Five Years.				Five Years and Above.			
	I.	II.	III.	IV.	I.	II.	III.	IV.	I.	II.	III.	IV.
General Infectious Diseases,............	...	0·76	...	...	0·50	0·63	...	0·58	0·35	0·48	0·32	0·46
Special do. of Children,..................	11·30	20·28	29·67	31·41	7·53	16·96	21·10	31·52	0·20	0·36	0·28	0·39
Diarrhœal Diseases,.......................	32·29	42·87	47·25	54·10	1·00	4·84	5·55	6·42	0·05	0·28	0·23	0·39
Consumption,............................	8·07	30·62	32·96	41·88	4·01	10·45	16·65	18·09	2·12	2·85	2·52	3·77
Acute Diseases of Lungs,.............									0·95	1·24	1·72	1·92
Nervous Diseases of Children,..........	25·83	18·37	34·06	38·39	6·02	7·89	8·14	12·25	...	...	...	...
Atrophy and Debility of Children,....	22·60	21·81	30·76	27·92	0·50	1·78	3·33	2·91	...	...	...	...
Premature Birth,..........................	12·91	14·16	15·38	19·19	...	...	...	...	...	...	...	...
Other Causes,..............................	22·60	29·85	40·65	31·41	5·53	5·48	7·77	12·25	5·85	6·28	7·14	9·08
Total of above, ...	135·60	178·72	230·73	244·28	25·09	48·03	62·54	84·02	9·52	11·49	12·21	16·01
Total calculated,...............	135·64	178·75	230·76	244·32	25·10	48·07	62·56	84·06	9·54	11·52	12·24	16·04

JAMES B. RUSSELL.

December, 1878.

APPENDIX.

General description of Groups of Sanitary Subdivisions.

Group I. contains four Subdivisions, viz., Blythswood, Kelvinhaugh and Sandyford, Exchange, and Monteith Row. The estimated population is 89,658, and the density 69 persons to an acre. Of the houses only 11 per cent. are one apartment, and 32½ per cent. have over three apartments.

Group II. contains seven Subdivisions, viz., Woodside, Kingston, Hutcheson Square, Springburn and Maryhill, Bellgrove and Dennistoun, St. Rollox, and Greenhead and London Road. The estimated population is 280,356, and the density 68 persons to an acre. These districts form a ring round the city. Excepting St. Rollox, they all touch the country on their outer border. They contain nearly all the growth of the city, both natural and artificial, from the operations of the Improvement Trust in its centre. The low density is deceptive, as it arises from the large tracts of unbuilt ground, including Glasgow Green and Alexandra Park. It has increased 40 per cent. since 1871. Of the houses 29½ per cent. are one apartment, and 9 per cent. above three apartments.

This Group now contains 50½ per cent. of the total population, and though not free from bad spots of older date, may be called New Glasgow; built under the Police Act of 1866, with such sanitary supervision as is thereby placed within the powers of the Dean of Guild. Its statistics therefore have a special interest.

Group III. contains six Subdivisions, viz., Laurieston, St. Enoch Square, Barrowfield, Anderston proper, Cowcaddens, and Port-Dundas. The estimated population is 100,064, and the density 226 persons to an acre. These districts in general lie immediately within the previous Group. The density has diminished slightly since 1871. Of the houses 39 per cent. are one apartment, and scarcely 3½ per cent. above three apartments.

Group IV. contains seven Subdivisions, viz., Calton proper, Gorbals, St. Andrew's Square, Brownfield, High Street and Closes, East and West, Bridgegate and Wynds. The estimated population is 69,459, and the density 308 persons to an acre. These are the worst districts in Glasgow, both morally and physically. The operations of the Improvement Trust fall almost entirely within their bounds. The density has in consequence been diminished since 1871 by fully 28 per cent. No less than 40 per cent. of the houses are one apartment, and only 5 per cent. over three apartments.

Table showing proportions of Houses of various sizes in Groups.

Groups.	Percentage of Houses of			
	1 Apart.	2 Aparts.	3 Aparts.	Above 3 Aparts.
I.,	11·05	33·09	23·33	32·52
II.,	29·48	46·68	14·91	8·92
III.,	38·79	47·46	10·39	3·34
IV.,	40·06	42·26	12·59	5·06
Whole City, 1878,	29·91	44·31	14·99	10·78
Do., 1877,	30·16	44·30	14·73	10·78
Do., 1876,	31·11	43·74	14·28	10·85
Do., 1875,	31·67	43·65	13·86	10·80
Do., 1874,	32·27	43·33	13·61	10·77
Do., 1873,	32·80	42·90	13·19	11·11

N.B.—It will be observed that there is a steady diminution in the proportion of 1 apartment houses in the city. If the houses of 5 apartments and above were separated from the 4 apartment houses, we should find that the larger houses also are diminishing. The actual number both of 1 apartment and 5 apartments and above is less now than it was in 1873. This shows that the number of 1 apartment houses building does not replace those demolished, and that the larger houses are being broken down into smaller, and their inhabitants are betaking themselves outside the city proper, which is becoming more and more a city of 2, 3, and 4 apartment houses.

J. B. R.

RETURN OF DEATHS FROM ALL CAUSES AND CERTAIN SPECIFIED DISEASES, AT ALL AGES AND UNDER FIVE YEARS, WITH RATES PER 1000 OF POPULATION AT THESE AGES, TOGETHER WITH NUMBER MEDICALLY CERTIFIED OR OTHERWISE IN THE STATISTICAL DIVISIONS OF THE CITY OF GLASGOW, FOR THE QUARTER ENDING 30TH SEPTEMBER, 1878.

STATISTICAL DIVISIONS.	Persons to an Acre.	Population Estimated in 1878.		Difference between Birth and Death Rates.		Deaths from all Causes.					Rate per 1000 of Population.			
		All Ages.	Under 5 Years.	Increase.	Decrease.	All Ages.	Under 5 Years.	5 and Under 20 Years.	20 and Under 60 Years.	60 Years and Upwards.	All Ages.	Under 5 Years.	5 Years and Upwards.	Percentage of Deaths under 5 Years to Total Deaths.
— Blythswood,	114	30,129	3,147	7·30	...	106	43	8	33	22	14·0	54·6	9·3	40·5
1. Exchange,	99	24,909	3,122	7·87	...	99	43	11	29	16	15·8	55·0	10·2	43·4
2. Port-Dundas,	112	4,977	760	32·95	...	25	19	1	3	2	20·0	100·0	5·6	76·0
3. High Street and Closes (West),	260	10,068	1,333	3·97	...	72	24	11	26	11	28·6	72·0	21·9	33·3
4. Saint Rollox,	370	14,492	2,269	21·53	...	87	51	13	14	9	24·0	69·9	11·7	58·6
5. Bellgrove and Dennistoun,	45	52,573	7,870	16·67	...	307	154	39	82	32	23·3	78·2	13·6	50·1
6. High Street and Closes (East),	202	8,364	1,117	11·00	...	56	29	4	16	5	26·7	103·8	14·9	51·7
7. Greenhead and London Road,	52	44,437	6,757	14·85	...	291	178	32	57	24	26·1	105·3	11·9	61·1
8. Barrowfield,	278	32,781	4,558	6·46	...	209	116	13	56	24	25·5	101·7	13·1	55·5
9. Monteith Row,	39	4,865	569	5·76	...	26	9	3	9	5	21·3	63·2	15·8	34·6
10. Saint Andrew's Square,	174	3,425	434	14·02	...	21	9	5	7	...	24·5	82·9	16·0	42·8
11. Calton proper,	381	22,950	3,221	16·04	...	163	95	12	36	20	28·4	117·9	13·7	58·2
12. Saint Enoch Square,	39	3,815	453	7·34	...	23	7	3	10	3	24·1	61·8	19·0	30·4
13. Brownfield,	499	3,367	454	10·69	...	29	18	5	5	1	34·4	158·5	15·1	62·0
14. Bridgegate and Wynds,	398	9,560	1,170	...	4·18	90	57	5	23	5	37·6	194·6	15·7	63·3
15. Woodside,	142	47,869	6,814	20·47	...	187	97	31	45	14	15·6	56·9	8·7	51·8
16. Cowcaddens,	376	18,772	2,909	9·02	...	130	77	15	23	15	27·2	105·8	13·3	59·2
17. Kelvinhaugh and Sandyford,	46	29,755	3,607	11·29	...	92	39	12	31	10	12·3	43·2	8·0	42·3
18. Anderston proper,	321	30,357	4,500	16·60	..	185	119	19	33	14	24·3	105·7	10·2	64·3
19. Kingston,	102	39,078	5,330	9·93	...	223	126	24	56	17	22·8	94·5	11·4	56·5
20. Laurieston,	258	9,362	1,265	5·98	...	69	41	9	16	3	29·4	129·6	13·8	59·4
21. Hutcheson Square,	144	58,738	6,930	21·38	...	325	183	37	75	30	22·1	81·9	11·4	56·3
22. Gorbals,	341	11,725	1,415	8·19	...	95	52	10	26	7	32·4	146·9	16·6	54·7
— Springburn and Maryhill (within bounds),	27	23,169	3,847	23·65	...	111	55	17	31	8	19·1	57·1	11·5	49·5
— Institutions,	..	6,200	277	...	..	71	9	4	25	33	...	...	...	...
Totals within Municipal Boundary,	91	545,737	76,128	13·36	...	3092	1650	343	769	330	22·6	86·6	12·2	53·3

STATISTICAL DIVISIONS.	CAUSES OF DEATH—ALL AGES.															
	Fevers.															
	Typhus.	Enteric.	Undefined.	Small-pox.	Scarlet Fever.	Measles.	Hooping-cough.	Croup.	Diphtheria.	Diarrhœal Diseases.	Consumption.	Acute Diseases of Lungs.	Nervous Diseases of Children.	Atrophy and Debility of Children.	Premature Birth.	Other Causes.
— Blythswood,	...	2	1	..	2	1	7	...	...	7	8	16	8	...	4	50
1. Exchange,	1	1	...	..	...	...	5	...	3	8	16	6	11	7	3	38
2. Port-Dundas,	...	...	...	..	...	...	1	...	1	2	...	2	4	3	...	12
3. High Street and Closes (West),	1	2	...	..	...	1	2	...	1	7	12	10	2	1	1	32
4. Saint Rollox,	...	1	...	..	1	2	8	...	...	10	11	14	6	4	1	29
5. Bellgrove and Dennistoun,	4	8	...	..	3	10	16	1	...	32	36	42	25	13	7	108
6. High Street and Closes (East),	1	...	1	..	...	...	3	2	1	3	8	7	5	3	1	21
7. Greenhead and London Road,	...	6	...	..	8	2	29	4	2	38	37	32	21	18	13	81
8. Barrowfield,	2	2	...	..	12	4	9	1	2	26	20	26	13	16	5	71
9. Monteith Row,	...	...	...	..	...	...	...	...	...	2	4	3	1	...	...	16
10. Saint Andrew's Square,	1	..	...	..	...	1	...	...	...	1	3	6	1	...	...	6
11. Calton proper,	...	1	...	..	1	6	17	...	...	17	19	20	16	8	5	53
12. Saint Enoch Square,	...	...	...	..	...	...	3	...	...	...	5	3	1	...	...	11
13. Brownfield,	...	...	...	..	...	...	9	...	...	2	6	3	1	3	...	5
14. Bridgegate and Wynds,	...	...	...	..	...	7	8	4	...	9	7	10	11	5	3	26
15. Woodside,	...	5	...	..	...	1	19	3	4	14	25	28	15	4	4	65
16. Cowcaddens,	...	1	...	..	...	1	16	...	2	8	12	16	16	0	1	48
17. Kelvinhaugh and Sandyford,	...	3	...	..	...	1	7	...	...	6	14	7	8	8	1	37
18. Anderston proper,	...	1	...	..	...	5	23	2	1	14	24	39	14	7	6	49
19. Kingston,	...	1	1	1	3	10	15	4	4	25	26	40	12	10	3	68
20. Laurieston,	...	1	...	..	...	1	6	...	...	13	9	10	5	2	2	20
21. Hutcheson Square,	...	7	...	..	5	11	32	3	...	38	42	42	21	15	7	102
22. Gorbals,	..	1	...	..	1	5	8	1	...	9	10	20	7	1	1	31
— Springburn and Maryhill (within bounds),	...	2	...	..	...	3	2	1	2	10	25	4	10	7	2	43
— Institutions,	...	...	...	..	1	...	...	...	...	4	9	16	...	3	...	38
Totals within Municipal Boundary,	10	45	3	1	37	72	245	26	23	305	390	422	234	147	70	1062

STATISTICAL DIVISIONS.	CAUSES OF DEATH—UNDER 5 YEARS.															
	Fevers.															
	Typhus.	Enteric.	Undefined.	Small-pox.	Scarlet Fever.	Measles.	Hooping-cough.	Croup.	Diphtheria.	Diarrhœal Diseases.	Consumption.	Acute Diseases of Lungs.	Nervous Diseases of Children.	Atrophy and Debility of Children.	Premature Birth.	Other Causes.
— Blythswood,	...	...	...	...	1	1	7	...	...	7	...	6	8	...	4	
1. Exchange,	...	1	...	...	...	...	4	...	1	7	...	4	11	7	3	5
2. Port-Dundas,	...	...	...	...	...	...	1	...	1	2	...	2	4	3	...	6
3. High Street and Closes (West),	...	1	...	...	...	1	2	...	...	6	1	5	2	1	1	4
4. Saint Rollox,	...	...	...	...	...	2	8	...	...	10	2	11	6	4	1	7
5. Bellgrove and Dennistoun,	...	1	...	...	2	10	15	1	...	26	4	23	25	13	7	27
6. High Street and Closes (East),	...	...	...	...	...	...	3	2	1	3	...	5	5	3	1	6
7. Greenhead and London Road,	...	1	...	...	4	2	27	4	2	34	9	19	21	18	13	24
8. Barrowfield,	...	...	...	...	8	4	0	1	2	22	2	13	13	16	5	21
9. Monteith Row,	...	...	...	...	...	...	...	...	...	2	...	1	1	...	...	5
10. Saint Andrew's Square,	...	...	...	...	...	1	...	...	...	1	...	6	1	...	...	...
11. Calton proper,	...	...	...	...	1	6	17	...	...	13	3	13	16	8	5	13
12. Saint Enoch Square,	...	...	...	...	...	...	3	...	...	...	...	2	1	...	...	1
13. Brownfield,	...	...	...	...	...	...	9	...	...	1	1	2	1	3	...	1
14. Bridgegate and Wynds,	...	...	...	...	...	7	7	2	...	9	1	5	11	5	3	7
15. Woodside,	...	1	...	...	...	1	17	3	4	13	5	18	15	4	4	12
16. Cowcaddens,	...	...	...	...	...	1	16	...	2	7	3	9	16	9	1	13
17. Kelvinhaugh and Sandyford,	...	...	...	...	...	1	7	...	...	6	...	2	8	8	1	6
18. Anderston proper,	...	...	...	...	...	5	22	2	1	14	8	26	14	7	6	14
19. Kingston,	...	...	...	1	1	10	13	3	3	20	3	26	12	10	3	21
20. Laurieston,	...	...	...	...	...	1	5	...	...	13	3	7	5	2	2	3
21. Hutcheson Square,	...	3	...	...	3	11	30	3	...	37	4	28	21	15	7	21
22. Gorbals,	...	...	...	...	1	5	6	1	...	9	2	11	7	1	1	8
— Springburn and Maryhill (within bounds),	...	...	...	...	...	3	2	...	2	10	7	3	10	7	2	9
— Institutions,	...	...	...	...	...	...	...	...	...	1	...	4	...	3	...	1
Totals within Municipal Boundary,	...	8	...	1	21	72	230	22	19	273	58	251	234	147	70	244

STATISTICAL DIVISIONS.	CERTIFIED OR OTHERWISE.								IN FRIENDLY SOCIETIES.					
	Certified.		Not Certified.		No Medical Attendance.		Dispensary.		Under 1 Year.		1 and Under 5 Years.			
	Under 5 Years.	5 Years and Upwards.	Under 5 Years.	5 Years and Upwards.	Under 5 Years.	5 Years and Upwards.	Under 5 Years.	5 Years and Upwards.	Legitimate.	Illegitimate.	Legitimate.	Illegitimate.	5 Years and Upwards.	Total in Friendly Societies.
— Blythswood,		59	1	1	2	3	4	...	3	...	9	...	19	31
1. Exchange,	35	54	1	...	5	2	2	...	6	1	8	...	24	39
2. Port-Dundas,	15	6	1	...	3	...	...	...	1	...	3	...	7	11
3. High Street and Closes (West),	19	44	...	...	5	3	...	1	3	...	5	1	24	33
4. Saint Rollox,	43	33	...	...	2	1	6	2	6	...	16	...	22	44
5. Bellgrove and Dennistoun,	119	150	6	...	10	3	19	...	20	...	29	1	68	118
6. High Street and Closes (East),	17	22	1	1	8	4	3	...	1	...	3	1	11	16
7. Greenhead and London Road,	152	109	2	3	19	1	5	...	27	3	37	3	68	138
8. Barrowfield,	90	89	...	...	19	3	7	1	13	1	31	1	53	99
9. Monteith Row,	7	16	...	...	1	1	1	...	...	...	3	...	6	11
10. Saint Andrew's Square,	8	11	...	...	1	1	...	...	1	...	2	...	8	11
11. Calton proper,	66	60	...	2	5	4	24	2	10	...	15	1	34	60
12. Saint Enoch Square,	3	14	1	1	...	...	3	1	1	...	1	...	6	8
13. Brownfield,	12	10	1	1	3	...	2	...	1	...	4	...	3	8
14. Bridgegate and Wynds,	40	28	...	...	9	5	8	...	3	1	11	1	12	28
15. Woodside,	88	85	1	1	4	4	4	...	8	...	17	...	31	56
16. Cowcaddens,	52	47	...	...	8	6	17	...	5	1	16	...	27	49
17. Kelvinhaugh and Sandyford,	35	51	...	2	3	...	1	...	3	...	8	1	21	33
18. Anderston proper,	95	62	1	3	3	...	20	1	17	...	26	1	31	75
19. Kingston,	118	93	...	1	5	2	3	1	10	...	28	...	28	66
20. Laurieston,	30	26	...	1	3	1	8	...	5	...	7	...	16	28
21. Hutcheson Square,	153	133	12	7	5	1	13	1	18	1	34	...	64	117
22. Gorbals,	34	39	2	1	2	1	14	2	3	...	10	...	14	27
— Springburn and Maryhill (within bounds),	45	55	4	...	2	1	4	...	12	...	10	...	37	59
— Institutions,	9	62	...	...	...	...	...	...	..	...	...	...	14	14
Totals within Municipal Boundary,	1321	1358	34	25	127	47	168	12	177	6	333	11	650	1179

SPECIAL RETURN OF DEATHS UNDER FIVE YEARS IN EACH OF THE STATISTICAL DIVISIONS OF THE CITY OF GLASGOW, FOR THE QUARTER ENDING 30TH SEPTEMBER, 1878.

STATISTICAL DIVISIONS.	Population Estimated in 1878.		Births Registered.			Deaths Under 5 Years.		Deaths Certified Under 5 Years		Legitimate Deaths.				Illegitimate Deaths.				Births.		Death-rate per 1000 of Population.		Percentage of Deaths Under 1 Year to —			CAUSES OF DEATH—UNDER 1 YEAR.																CAUSES OF DEATH—1 AND UNDER 5 YEARS.														
										Under 1 Year.		1 and Under 5 Years.		Under 1 Year.		1 and Under 5 Years.									Fevers.																Fevers.														
	Under 1 Year.	1 and under 5 Years.	Total Numbers.	Legitimate.	Illegitimate.	Under 1 Year.	1 and Under 5 Years.	Under 1 Year.	1 and Under 5 Years.	Number.	No. Certified.	Number.	No. Certified.	Number.	No. Certified.	Number.	No. Certified.	Rate per 1000 of Population.	Percentage of Illegitimate Births to Total Births.	Under 1 Year.	1 and Under 5 Years.	Total Births.	Total Deaths.	Deaths under 5 Years.	Typhus.	Enteric.	Undefined.	Small-pox.	Scarlet Fever.	Measles.	Hooping-cough.	Croup.	Diphtheria.	Diarrhoeal Diseases.	Consumption.	Acute Diseases of Lungs.	Nervous Diseases of Children.	Atrophy and Debility of Children.	Premature Birth.	Other Causes.	Typhus.	Enteric.	Undefined.	Small-pox.	Scarlet Fever.	Measles.	Hooping-cough.	Croup.	Diphtheria.	Diarrhoeal Diseases.	Consumption.	Acute Diseases of Lungs.	Nervous Diseases of Children.	Atrophy and Debility of Children.	Other Causes.
— Blythswood,	733	2,414	161	150	11	27	16	22	14	21	19	16	14	6	3	...	...	21·37	6·83	147·3	26·5	16·77	25·47	62·79	...	...	...	...	...	...	3	...	...	6	...	4	5	...	4	5	...	...	...	...	1	1	4	...	...	1	...	2	3	...	4
1. Exchange,	757	2,365	148	139	9	30	13	23	12	26	21	13	12	4	2	...	...	23·76	6·08	158·5	21·9	20·27	30·30	69·76	...	...	...	...	...	...	2	...	...	6	...	1	8	6	3	4	...	1	...	...	...	...	2	...	1	1	...	3	3	1	1
2. Port-Dundas,	186	574	66	58	8	11	8	10	5	8	7	8	5	3	3	...	..	53·04	12·12	236·5	55·7	16·66	44·00	57·89	...	...	...	...	...	...	...	...	1	1	...	1	2	3	...	3	...	...	...	...	...	...	1	...	...	1	...	1	2	...	3
3. High Street and Closes (West),	306	1,027	82	73	9	12	12	9	10	10	8	10	8	2	1	2	2	32·57	10·97	156·8	46·7	14·63	16·66	50·00	...	...	...	...	...	...	...	...	...	5	1	2	1	1	1	1	...	1	...	...	...	1	2	...	...	1	...	3	1	...	3
4. Saint Rollox,	600	1,669	165	152	13	28	23	23	20	20	17	22	19	8	6	1	1	45·54	7·87	186·6	55·1	16·96	32·18	54·90	...	...	...	...	...	...	5	...	...	8	1	4	1	4	1	4	...	...	...	...	...	2	3	...	...	2	1	7	5	...	3
5. Bellgrove and Dennistoun,	1858	6,012	526	490	36	90	64	70	49	74	60	59	48	16	10	6	1	40·02	6·84	193·7	42·5	17·11	29·31	58·44	...	...	...	...	...	4	8	...	...	21	...	12	11	9	7	18	...	1	...	...	2	6	7	1	...	5	4	11	14	4	9
6. High Street and Closes (East),	278	839	79	64	15	15	14	7	10	13	7	12	9	2	...	2	1	37·78	18·98	215·8	66·7	18·98	26·78	51·72	...	...	...	...	...	...	1	1	...	1	...	2	3	3	1	3	...	...	...	...	...	...	2	1	1	2	...	3	2	...	3
7. Greenhead and London Road,	1.750	5,007	456	428	28	101	77	79	73	89	69	73	70	12	10	4	3	41·04	6·14	230·8	61·5	22·14	34·70	56·74	...	...	...	...	...	...	13	1	...	22	2	11	8	14	13	17	...	1	...	...	4	2	14	3	2	12	7	8	13	4	7
8. Barrowfield,	1,145	3,413	262	247	15	65	51	44	46	58	41	49	45	7	3	2	1	31·96	5·72	227·0	59·7	24·80	31·10	56·03	...	...	...	...	1	2	1	...	...	17	...	7	8	11	5	13	...	...	...	...	7	2	8	1	2	5	2	6	5	5	8
9. Monteith Row,	153	416	33	30	3	4	5	2	5	4	2	5	5	...	...	...	...	27·13	9·09	104·5	48·0	12·12	15·38	44·44	...	...	..	...	...	...	...	...	...	2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	1	...	3
10. Saint Andrew's Square,	106	328	33	30	3	5	4	4	4	5	4	4	4	...	...	...	...	38·54	9·09	188·6	48·7	15·15	23·80	55·55	...	...	...	...	...	...	...	...	...	1	...	3	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	3	...	...	...
11. Calton proper,	799	2,422	255	235	20	54	41	34	32	42	27	38	29	12	7	3	3	44·44	7·84	270·3	67·7	21·17	33·12	56·84	...	...	...	...	...	...	5	...	...	11	2	7	9	6	5	9	...	...	...	...	1	6	12	...	...	2	1	6	7	2	4
12. Saint Enoch Square,	107	346	30	26	4	5	2	1	2	4	1	2	2	1	...	...	...	31·45	13·33	186·9	23·1	16·66	21·73	71·42	...	...	...	...	...	...	1	...	...	...	...	2	1	...	...	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
13. Brownfield,	124	330	38	27	11	9	9	4	8	8	4	9	8	1	...	...	...	45·14	28·94	290·3	109·0	23·68	31·03	50·00	...	..	...	...	...	...	6	...	...	1	...	1	...	1	...	...	...	...	...	...	...	...	3	...	...	...	1	1	1	2	1
14. Bridgegate and Wynds,	281	889	80	62	18	22	35	17	23	14	12	25	21	8	5	10	2	33·47	22·50	313·1	157·4	27·50	24·44	38·59	...	...	..	...	...	1	1	1	...	6	...	...	4	4	3	2	...	...	...	...	...	6	6	1	...	3	1	5	7	1	5
15. Woodside,	1,605	5,209	432	409	23	55	42	49	39	48	43	42	39	7	6	...	..	36·09	5·32	137·0	32·2	12·73	29·41	56·70	...	1	...	...	...	1	4	1	...	9	2	12	8	4	4	9	...	...	...	...	...	...	13	2	4	4	3	6	7	...	3
16. Cowcaddens,	724	2.185	170	149	21	42	35	22	30	33	17	32	29	9	5	3	1	36·22	12·35	232·0	64·0	24·70	32·30	54·54	...	...	...	...	...	...	5	...	1	5	1	5	8	7	1	9	...	...	...	...	...	1	11	...	1	2	2	4	8	2	4
17. Kelvinhaugh and Sandyford,	834	2,773	176	170	6	23	16	20	15	19	17	14	14	4	3	2	1	23·65	3·40	110·3	23·0	13·06	25·0	58·97	...	...	...	...	...	1	1	...	...	6	...	...	3	8	1	3	...	...	...	...	...	...	6	...	...	...	...	2	5	...	3
18. Anderston proper,	1,180	3,320	311	280	31	66	53	54	41	53	46	46	37	13	8	7	4	40·97	9·96	223·6	63·8	21·22	35·67	55·46	...	...	...	...	...	1	11	1	...	11	3	7	11	6	6	9	...	...	...	...	...	4	11	1	1	3	5	19	3	1	5
19. Kingston,	1,368	3,962	320	301	19	65	61	61	57	56	52	56	53	9	9	5	4	32·75	5·93	190·0	61·5	20·31	29·14	51·58	..	...	...	1	...	1	6	1	...	14	1	10	8	8	3	12	...	...	...	...	1	9	7	2	3	6	2	16	4	2	9
20. Laurieston,	298	967	83	72	11	21	20	13	17	16	12	19	16	5	1	1	1	35·46	13·25	281·8	82·7	25·30	30·43	51·21	...	...	...	...	...	...	2	...	...	9	3	1	1	1	2	2	...	...	...	...	...	1	3	...	...	4	...	6	4	1	1
21. Hutcheson Square,	2,331	6,599	639	606	33	96	87	78	75	81	67	84	74	15	11	3	1	43·51	5·16	164·7	52·7	15·02	29·53	52·45	...	...	..	...	...	1	6	..	...	30	4	16	8	11	7	13	...	3	...	...	3	10	24	3	...	7	...	12	13	4	8
22. Gorbals,	398	1,017	119	107	12	23	29	14	20	18	11	27	19	5	3	2	1	40·59	10·08	231·1	114·0	19·32	24·21	44·23	...	...	...	...	...	...	2	...	...	6	..	6	4	1	1	3	...	...	...	...	1	5	4	1	...	3	2	5	3	...	5
— Springburn and Maryhill (within bounds),	938	2,909	248	242	6	32	23	24	21	27	21	23	21	5	3	..	..	42·81	2·41	136·4	31·6	12·90	28·82	58·18	...	...	...	...	...	...	1	...	...	8	4	1	4	7	2	5	...	...	...	...	...	3	1	...	2	2	3	2	6	...	4
— Institutions,	85	192	3	...	3	7	2	7	2	3	3	...	...	4	4	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
TOTAL WITHIN MUNICIPAL BOUNDARY,	18,944	57,184	4915	4547	368	908	742	691	630	750	588	688	601	158	103	54	29	36·02	7·48	191·7	51·9	18·47	29·36	55·03	...	1	...	1	1	12	84	6	2	207	24	117	117	118	70	148	...	7	...	...	20	60	146	16	17	66	34	134	117	29	96

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